

Metabolism of Microelements in the Brain
According to Sinusotomy Data in the Absence
of the Central Nervous System Activity.
by V. A. Soroka, 12 pp.

RUSSIAN, per, Ukrain Biokhim Zhur, Vol. 17, No. 3, 1959, pp 435-443.

SLA 60-10510

Sci
Vol. XV, No. 11
May 62

147,962

Glucone Activity in the Tissue of Healthy
and Tumorous Animals, by V. P. Korotkoruchko,
11 pp.

RUBOTAN, per, Ukrain Biokhim Zhur,
Vol XXI, No 4, 1969, pp 481-488.

SLA 60-10416

OTD 60-14777

Sci
Vol IV, No 11
May 68

197, 965

(DC-5411)

Effect of Galascorbine and Thiamine on the
Recovery of Injured Muscles, by T. V. Fetisova,
E. F. Shamray, 8 pp.

UKRAINIAN, par, Ukrayins'kyy Biokhimi,
Vol XXXI, No 4, Sept-Oct 1959, pp 562-568.

JPRS 3054

Sci - Med

Apr 61

147,231

New Location of *Carpocypogon Chalybaeus* Kirtz,
in Ukraine, by G. M. Palamar, 5 pp.

RUSSIAN, per, Ukrayinskyi Botanichnyi Zhur,
Vol. 31, No 5, 1959, pp 81-83.

NLL 7s 6d HDB-2251

NCH-203 121

324,297

USSR
Gen

Effect of Serotonins on the Incorporation of the
Radioactive Trace Into CNS Proteins after intra-
cranial Introduction of Methionine s^{35} and
Glucose 14 , by E. M. Kravchynski, 6 pp.

RUSSIAN, per, Ukrain Biokhim Zhur,
Vol XXXI, No 5, 1959, pp 665-670.

SIA 60-18415

Ser
Vol IV, No 11
May 62

197, 966

Effect of α -Pinene of Oxygen Absorption and
Glutathione Activity in the Rat Brain in
Experiments in Vivo, by N. M. Epshteyn, 2 pp.

RUSSEAN, per, Ukrainakiy Biokhim Zhur., Vol. 1001,
No 3, 1959, pp 751-755.

SLA 60-18531

199,697

SLA
Jun 62

Vol 4, No 12

S-104/60

(NY-3661).

The Effect of Iodination of the Stability of the
Macrostructure of Egg Albumin, by V. Lobachevs'ka,
9 pp.

UKRAINIAN, per, Ukrain Biokhim Zhur, Vol XXXI, No 6,
Kiev, 1959, pp 799-806.

JPRS 5003

Sci - Chem

Jul 60

119,709

Mison-Crighel, Nella, Constantinescu, Elisabeta,
and Crighel, E.

THE EFFECT OF THE PRECONVULSIVE FUNCTIONAL STATE UPON THE DEVELOPMENT OF A CONVULSIVE ATTACK AND UPON THE BIOCHEMICAL CHANGES CAUSED BY CONVULSIONS. [1962] [12]p. (2 figs. omitted) 17 refs.
Order from OTS or SLA \$1.60

62-14689

Trans. of Ukr[ayins'kyi] Blokh[imichnyi] Zhurn[al]
(USSR) 1959, v. 31, no. 6, p. 834-848.

DESCRIPTORS: *Brain, *Metabolism, Glycogen,
Lactic acid, *Convulsions, Biochemistry, Inhibition,
Adenosine phosphates, Electroencephalography.

A state of stimulation in rats caused by an injection of four mg of sodium benzoic caffeine per 100 g of body weight produces an irregular curve on the EEG with rapid waves of a frequency of 25-30 y/c, predominant-
(Biological Sciences--Pathology, TT, v. 8, no. 6)over

62-14689

I. Mison-Crighel, N.
II. Constantinescu, E.
III. Crighel, E.

Office of Technical Services

Incorporation of Radiomethionine and
Radio-tyrosine into the Brain Tissue
in SE Single and Recurring Experimentally
Induced Epileptic Seizures, by K. I.
Pogodayev, N. F. Turova, 11 pp.

RUSSIAN, per, Ukrain Biokhim ~~ZHE~~ Zhur,
Vol XXII, No 6, 1959, pp 849-848.

SLA 60-18366

Sci
Feb 62
Vol 1, No 9

184, 672

Skvirskaya, E. B. and Babil, T. P.
COMPARATIVE DATA ON THE NUCLEIC ACID
COMPOSITION IN THE NERVOUS SYSTEM OF COWS
[1962] 19 p. 19 refs.

Order from ODS or SLA \$1.10

62-14763

Trans. of Ukr[ayins'kyi] Blokh[imichnyi] Zhurn[al]
(USSR) 1959, v. 31] no. 6, p. 859-867.

DESCRIPTORS: *Nucleic acids, *Nervous system,
Cattle, *Brain, Nerves, Paper chromatography,
Ultraviolet spectroscopy.

The method of quantitative paper chromatography in
conjunction with ultraviolet spectrophotometry was
applied to a study of the nucleic acid composition in
nervous system tissues. RNA, derived from the brain
and peripheral nerve tissues of cows is typified by
different composition (different molar ratios of the
various nitrogenous components and a different coef-
ficient of specificity). The tissue and nuclear RNA's
(Biological Sciences--Biochemistry, TT, v. 8, no. 9)
(over)

62-14763

I. Skvirskaya, E. B.
II. Babil, T. P.

Office of Technical Services

S-104/60

(NY-3001).

The Effect of Ionizing Radiation on the Lipid
Composition of the Blood and Liver of the Rat, o.
V. V. Nikol'skiy, N. A. Nikolayeva, L. M.
Chuzakova, 7 pp.

UKRAINIAN, per, Ukrain Biokhim Zhur, Vol XXII, No 9,
Kiev, 1959, pp 877-882.

JPRS 5004

Sci - Chem

Jul 60

119,708

Effect of Vitamin B₆ Antagonists (Toxo-
Pyrimidine and Isonicotinyl Hydrazine) on
the Contents of NH₃, Glutamine, Glutamic
and γ -Aminobutyric Acids in the Rat Brain,
by Yu. V. Bukin, 6 pp.

RUSSIAN, per, Est Ukrayins'kyi Bichinn Zhur,
Vol. XXXI, No 6, 1959, pp 905-911.

SIA 60-18365

Sci
May 62
Vol 4, No 10

193.793

S-104/60

(NY-3661).

Conversions of Phosphoric Acid Esters of Choline,
Ethanolamine, and Serine in the Brain, by P. A.
Kometiani, L. K. Tkeshelashvili, 30 pp.

UKRAINIAN, per, Ukrain Biokhim Zhur, Vol XXXI,
No 6, Kiev, 1959, pp 913-936.

JPRS 5005

Sci - Chem
Jul 60

119,710

Bukin, Yu. V.
ON THE CONVULSIVE AND LETHAL ACTION OF
VITAMIN B₆ ANTAGONISTS (TOXOPYRIMIDINE AND
ISONICOTINYL HYDRAZIDE), [1962] [10]p. 18 refs.
Order from CTS or SLA \$1.10 62-25113

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR)
1960, v. 32 [no. 1] p. 67-76.

DESCRIPTORS: *Convulsions, *Poisoning, Inhibition,
*Vitamin B complex, *Pyrimidines, Toxicity, *Isoni-
azid, Drugs, Glutamic acid, Arginine.

When rats are intoxicated with toxopyridimine, the
administration of pyridoxal, even in the latest stages of
intoxication, suppresses convulsions and prevents the
lethal outcome of the intoxication. In contrast to toxo-
pyridimine intoxication, acute intoxication of rats by
isonicotinyl hydrazide cannot be suppressed or elimi-
(Biological Sciences - Toxicology, TT, v. 9, no. 6)
(over)

62-25113

II. Bukin, Yu. V.
II. Translations, New York

Office of Technical Services

62-33270

Tsiperevich, G. S. and Loseva, A. L.
ROLE OF AMINO GROUPS IN THE MACROSTRUCTURE OF PROTEINS. [1962] 113p. 28 refs.
Order from OTS or SLA 51.63 62-33270

I. Tsiperevich, G. S.
II. Loseva, A. L.
III. Translations, New York

Trans. of Kravits'kiy Biokhimiicheskii Zhurnal (1962)
1962 [v. 32] no. 1, p. 491-506.

DESCRIPTORS: *Amines, *Molecular structure, Proteins, *Basic proteins, Biochemistry, Trypsin, Trypsinogen, Bpi white.

(Biological Sciences--Biochemistry, TIT, v. 9, no. 1)

Office of Technical Services

62-14762

Mestechkina, A. Ya.
SOME CHEMICAL CHANGES IN THE BRAIN
UNDER THE EFFECT OF TUMORS. [1962] [18]p.
15 refs.

Order from CTS or SLA \$1.60 62-14762

Trans. of Ukr[ayins'kyl] Biokh[imichnyi] Zhurn[al]
(USSR) 1960, v. 32, no. 3, p. 381-391.

DESCRIPTORS: *Brain, Chemical analysis, *Tumors,
Water, Nitrogen, Phosphorus, *Cerebrospinal fluid.

In the white matter of the human brain located close
to a tumor the water content increases as observed
in macroscopic experiments with oedema and swelling.
At the same time the content of total nitrogen
and phosphorus, the precipitate nitrogen and the acid-
sol. phosphorus content of total nitrogen and phos-
phorus, the precipitate nitrogen and the acid-sol.
phosphorus content, computed on the dry matter, in-
creases. With the method of centrifugion we were
(Biological Sciences--Biochemistry, TT, v. 8, no. 9)
(over)

I. Mestechkina, A. Ya.

Office of Technical Services

Seventh

(1214319)).
Coordination Conference on the Problem Biochemistry
of the Nervous System, by Ya. V. Belik, 2 pp

UKRAINIAN, per, Ukrainskiy Biokhimichny Zhur,
Vol XXXII, No 3, 1960, pp 483-484.

*JPRS 6046

Sci-Chem

19 Aug 60

(NY-5431)

First Conference on the Study of Nucleic Acids and
Nucleo-Proteins, by O. F. Chapinoga, E. B.
Skvyrskaya, 9 pp.

RUSSIAN, per, Ukrain Biokhim Zhur, Vol XXXII,
No 4, 1960, pp 614-618.

JPRS 7460

Sci - Biol

Feb 61

139, 089

Polyakova, N. M., Belik, Y. V., and Tsaryuk, L. A.
PROTEINASE IN FUNCTIONALLY DIFFERENT
DIVISIONS OF THE CENTRAL NERVOUS SYSTEM
AND IN VARIOUS STRUCTURAL ELEMENTS OF THE
BRAIN CELLS. [1962] [5]p.

Order from OTS or SLA \$1.10

63-10173

Partial trans. (table only) of Ugrayinskiy
Biokhimichnyi Zhurnal (USSR) 1960, v. 32, no. 5,
p. 623-631.

DESCRIPTORS: *Peptide hydrolases, *Nervous
system, *Brain, *Spinal cord, *Cells (Biology),
Cerebral cortex, Cerebellum, Microsomes,
Biochemistry.

(Biological Sciences--Biochemistry, TT, v. 9, no. 12)

63-10173

I. Polyakova, N. M.
II. Belik, Y. V.
III. Tsaryuk, L. A.

Office of Technical Services

(NY-5689/1)

Effect of Radiant Energy on Changes in the
Aldolase Activity and the SH groups of Myogen A,
by M. A. Kolomiychenko, I. P. Stasevs'ka, 9 pp.

UKRAINIAN, per, Ukrayins'kyy Biokhim Zhur,
Vol XXXII, No 5, 1960, pp 645-652.

JPRS 7983

Sci -- Med

Apr 61

147,237

(NY-5689/2)

On Certain Physico-Chemical Properties of Proteins
of Blood Serum During Malignant Growth, by V. P.
Korotkoruchko, 15 pp.

per,
UKRAINIAN, Ukrayins'kyy Biokhimichnyy Zhurnal,
Vol LXXII, No 5, 1960, pp 655-666.

JPRS 9005

Sci - Med

Apr 61

147,239

(NY-5689/3)

Age Changes in the Intensity of Radiomethionine
Incorporation in the Proteins of the Crystalline
Lens, by Ye. V. Cherevychna, I. I. Chykalo, 6 pp.

~~XXXXXXXXXX~~
UKRAINIAN, per, Ukrayins'kyi Biokhim Zhur,
Vol. XXXII, No 5, 1960, pp 678-681.

JPRS 7984

Sci. - Med

Apr 61

147,230

Epstein, M. M. and Khilko, O. K.
THE EFFECT OF α -PINENE ON CARBON DIOXIDE
PHOSPHORUS-METABOLISM. [1962] [7]p. 15 refs.
Order from OTS or SLA \$1.10 63-10170

Partial trans. (tables, figs. refs. conclusion only)
of Ukr[ainian] Biokh[imichnyi] Zhurn[al] (USSR)
1960, v. 32, no. 5, p. 710-715.

DESCRIPTORS: Toxicity, *Heptenes, *Carbon dioxide,
Phosphorus, *Metabolism, Glycogen, Liver, Muscles,
Brain, *Oxygen consumption, *Phosphorylation,
Adenosine phosphates, Biochemistry.

Prolonged administration of α -pinene (70 to 80 days)
leads to an increase in the amount of glycogen in
liver tissue of animals (an average increase of 21%)
and in the skeletal muscles of rats (an average
increase of 131%). No marked differences in quantity
(Biological Sciences--Biochemistry, TT, v. 9, no. 12)
(over)

63-10170

1. Title: Pinene
I. Epstein, M. M.
II. Khilko, O. K.

Office of Technical Services

Veremeenko, K. N.
DEPRESSION OF TRYPSIN ACTIVITY BY BLOOD
PLASMA. [1962] [11]p. 24 refs.
Order from OTS or SLA \$1.60 62-33087

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR)
1960, v. 32, no. 6, p. 793-807.

DESCRIPTORS: *Trypsin, *Drugs, Pharmacology,
Inhibition, *Blood plasma, *Enzymes, Decomposition,
Proteins, Fever, Therapy.

The present article supports the conception that the
binding of trypsin by the inhibitors in the plasma is
reversible and that this complex tends to dissociate.
The antifebrile action of trypsin is based on the decom-
position of certain proteins or peptides, which have a
strong affinity for the enzyme.

(Biological Sciences--Pharmacology, TT, v. 9, no. 7)

62-33087

I. Veremeenko, K. N.
II. Translations, New York

Office of Technical Services

Pogodav, K. I. and others.
PROTEIN METABOLISM IN BRAIN TISSUES DURING
RECURRING EPILEPTIC FITS. [1952] [23]p. 47 ref.
Order from OTS or SLA \$2.60 62-20315

Transl. of Trudy s'eyu [Book] [in Russ.] Zhurnal
(USSR) 1952, v. 12, no. 6, p. 805-822.

DESCRIPTORS: *Proteins, *Metabolism, *Brain,
*Tissues (biology), Convulsions, *Epilepsy

The intensity of protein metabolism in the brain of animals depends on the number and frequency of repeated convulsive attacks induced by electricity: if attacks are frequently repeated without leading to deep exhaustion the metabolic processes are carried out more intensively than under normal circumstances and under conditions of a few repetitions only, taking into account at the same time the condition following convulsive attacks, which is characterized by an essentially (Biological Sciences - Pathology, TF, v. 9, no. 11) (over)

62-20315

1. Pogodav, K. I.

Office of Technical Services

Udintsev, N. A.
EFFECT OF GLUTAMIC ACID ON THE ACTIVITY
OF CERTAIN TISSUE ENZYMES UNDER THE CON-
DITION OF HYPOXIA AND PHYSICAL EFFORT.
[1962] [1] p. 24 refs.

Order from CTS or SLA \$1.60

63-10174

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR)
1960, v. 37, no. 6, [p. 857-866].

DESCRIPTORS: *Glutamic acid, Tissues (Biology),
Enzymes, *Hypoxia, *Exercise, Hydrolases,
Oxidoreductases, Cytochrome oxidase, Biochemistry.

The injection of glutamic acid under conditions of
hypoxia intensifies the activity of some enzymes
associated with tissue respiration, namely cyto-
chrome oxidase, glutaminoxidohydrogenase, and
lactic dehydrogenase. In physical effort of short
(Biological Sciences-- Biochemistry, TT, v. 9, no. 17)
(over)

63-10174

I. Udintsev, N. A.

Office of Technical Services

Kotkova, K. I., Orlovskaya, N. N., and Enevich, T. F.

PHOTOSENSITIZED OXIDATION OF EGG ALBUMIN AMINO ACIDS AND CHANGES IN THE MACRO-STRUCTURE OF ITS MOLECULE. [1962] [9]p.

18 refs.

Order from OTS or SLA \$1.10

63-13033

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR) 1961 [v. 33] no. 1, p. 3-13.

DESCRIPTORS: Photosensitivity, Oxidation, *Albumins, *Eggs, *Amino acids, Photochemistry, Molecular structure, Proteins.

It was found that in photosensitized oxidation of egg albumin by methylene blue under conditions of weakly alkaline reaction (pH 8.1--8.3) cysteine and histidine are oxidized more rapidly, tyrosine and tryptophan (Biological Sciences--Biochemistry, TT, v. 10, no. 4) (over)

63-13033

I. Kotkova, K. I.

II. Orlovskaya, N. N.

III. Enevich, T. F.

IV. Translations, New York

Office of Technical Services

Gubenko, T. L.
OBTAINING GAMMA-GLOBULIN FROM PLACENTAL
SERUM BY THE RIVANOL-ALCOHOL METHOD
UNDER PRODUCTION CONDITIONS. [1962] 18p.
17 refs.
Order from OTS or SLA \$1.10

63-13034

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR)
1961, v. 33, no. 1, p. 14-21.
Another trans. is available from ATS \$8.50 as
ATS-29P60U [1962] 6p.

DESCRIPTORS: *Blood proteins, Preparation, *Fetal
membranes, *Serum, Gamma globulin, Alcohols.

A combined Rivanol-alcohol method is recommended
for obtaining gamma-globulin from placental serum.
Employing the Rivanol-alcohol method makes it possible:
(1) to cut the fractionation time to less than half of that
required with the alcohol method; (2) to increase the
(Biological Sciences--Biochemistry, TT, v. 9, no. 11)
(over)

63-13034

- I. Title: Rivanol-
alcohol method
- I. Gubenko, T. L.
- II. Translations, New York

Office of Technical Services

Gubenko, T. L.
THE PREPARATION OF GAMMA-GLOBULIN FROM
PLACENTAL SERUM BY THE RIVANOL-ALCOHOL
METHOD UNDER INDUSTRIAL CONDITIONS. [1962]
6p.
Order from ATS \$8.50 ATS-29P60U

Trans. of Ukrayin[s'kyi] Blokhim[ichnyi] Zhur[nal]
(USSR) 1961, v. 33, no. 1, p. 14-20.

DESCRIPTORS: *Blood proteins, Preparation, *Fetal
membranes, *Serum.

(Biological Sciences - Biochemistry, TT, v. 8, no. 4)

62-17274

I. Gubenko, T. L.
II. ATS-29P60U
III. Associated Technical
Services, Inc., East
Orange, N. J.

ATS UT-4216

Office of Technical Services

(NY-6426)

Effect of Radioactive Phosphorus on the Content of
Proteins, Residual Nitrogen, and Urea in the Blood
Under Conditions of Medically Induced Sleep, by
I. V. Savits'kiy, 12 pp.

UKRAINIAN, per, Ukrain Biokhim Zhur, Vol XXXII, No 1,
1961, pp 22-29.

JPRS 9412

158,635

Sci - Med

Jul 61

Nucleotide Composition of Deoxyribonucleic Acid in
Various Animal Breeds and Strains of the Same
Species, by I. P. Kok, 9 pp.

UKRAINIAN, per. Ukrain Biokhim Zhur, Vol XXXII, No 1,
1961, pp 37-43.

JPRS 9413

Sci - Med

Jul 61

158,634

(NY-6426)

Effect of Vitamins B₁ and PP on the Metabolism of
Citric and Fumaric Acids in Radiation Sickness, by
Ye. F. Sopin, V. M. Gayday, 13 pp.

UKRAINIAN, per, Ukrain Biokhim Zhur, Vol XXXII,
No 1, 1961, pp 57-62.

JPRS 9456

Sci - Med

157,093

Jul 61

(NY-6426)

Effect of Irradiation on the Physico-Chemical
Properties of the Proteins in the Blood Serum, b
A. P. Maydanov, I. K. Pelikh, I. P. Makarenko,
8 pp.

UKRAINIAN, per, Ukrain Biokhim Zhur, Vol XXXII,
No 1, 1961, pp 88-93.

JPES 9457

Sci. - Med

Jul 61

157, 100

DC-5879 ()

"Chamber for Work with Radioactive Carbon," by
G. KH. Mapuka

Ukrainian, Per., Ukrainskiy Biokhimicheskiy Zhurnal,
Vol 33, Series 1, Kiev, Jan '61, PP 111-113.

*JPRS

Sci/Med
May 61

Carothene-containing Alga Dunaliella
Salina Teod. in Saline Basins of the
Crimean Region, by N. P. Massyuk.
RUSSIAN, per, Ukrains'kii Biokhimichnii
Zhurnal, 1961, Vol 18, No 4, pp 100-109.
NLI RTS 2211 (On Loan or Purchase)

Aug 65

288,863

(NY-6625)

The Causes of Titer Reduction During Storage of
"Dialform-3" Antitoxic Sera, by M. A. Torban,
7 pp.

UKRAINIAN

RUSSIAN, per, Ukrayinskyy Biokhim Zhur, Vol XXXIII,
No 2, 1961, pp 175-179.

JPRS 9954

Sci - Biology

169, 191

Sep 61

(NY-6538/1)

Influence of Low-Intensity Ultrasonic Waves on
Tissue Respiration and Glycolysis in the Brains
of Albino Rats, by N. F. Svadkovskaya, 11 pp.

RUSSIAN, per, Ukrainskiy Biokhim Zhur,
Vol XXXIII, No 2, 1961, pp 187-194.

JPRS 9733

Sci - Med.

Jul 61.

160,393

(NY-6538/2)

Content of Free Fatty Acids in the Blood in
Radiation Sickness, by N. A. Nekovaleva, 7 pp.

UKRAINIAN, per, Ukrainskiy Biokhim Zhur, Vol XXXIII,
No 2, 1961, pp 195-199.

JPRS 9734

Sci - Med

Aug 61

2
167,056

(NY-6533/3)

Influence of Ionizing Radiation on Metabolism of
Brain Phospholipids, by O. A. Smirnova, 8 pp.

RUSSIAN, per, Ukrainskiy Biokhimi Zhur, Vol. XXVIII,
No 2, 1961, pp 208-213.

JPRS 9735

Sci - Med

Jul 61.

160,379

(IN-6538/4)

The Influence of Whole-Body X-Irradiation on
Protein and Water Metabolism in the Brain,
by O. F. Barmina, 6 pp.

UKRAINIAN, per, Ukrainskiy Biokhim Zhur.
Vol XXIII, No 2, 1951, pp 215-219.

JPRS 9736

Sci - Med
Aug 61

163,118

A Method for the Determination of Vitamin D
in Solutions of Irradiated Ergosterol,
7-Dehydrocholesterol and in Irradiated Yeast,
by V. N. Bukin, I. N. Garkun, V. Ponomarev,
16 pp.

RUSSIAN, per, Ukrayinskyi Biokhimi Zhur,
Vol 33, No 2, 1951, pp 239-247.

CPBTI IT-66-61496

324,294

CPBTI IT-66-61496

(NY-6538/5)

Carbohydrate Metabolism in the Nervous System,
by B. I. Khaykina, 32 pp.

RUSSIAN, per, Ukrainskiy Biokhim Zhur,
Vol. XXXIII, No 2, 1961, pp 272-297.

JPRS 9737

Sci. - Med.

Jul 61

160,392

(NY-6630)

Effect of Ionizing Radiation on the Blood Lipid Composition in Dogs and the Role of Highly Unsaturated Acids During the Course of Radiation Sickness, by N. A. Nekovaeva, 6 pp.

RUSSIAN, per, Ukrainskiy Biokhimicheskiy Zhur, Vol XXXIII, No 3, 1961, pp 348-351.

JPRS 10446

Sci - Med

173,583

Nov 61

(NY-6630)

Changes in Lipoproteins of Tumors Under the
Effect of Gamma Rays, by A. M. D'yakova, 14 pp.

RUSSIAN, per, Urafskiy Biokhimicheskiy Zhur,
Vol XXXIII, No 3, 1961, pp 352-361.

JPRS 10440

Sci - Med

173.580

Nov 61

Biochemical Changes in Rat Muscles During Work
of Various Durations Under Conditions of
Supplementary Introduction into the Ration of
Malt Extract, Maltose and Glucose, by A. F.
Krasnova, N. R. Chagovets.

RUSSIAN, per, Ukrainians 'Kii Biokhimichnii
Zhurnal, vol 33, No 3, 1961, pp 402-406.
NLL/RPS 125 6a.

Sci -
Aug 67

334,947

(NY-6640)

Effect of Hypothetia on Amino Acid and Glutamate
Content in the Cerebral Cortex of Rats During
Their Lying and Subsequent Revivification, by
M. S. E. Gopevskaya, Ye. A. Nosova, 15 pp.

***** UKRAINIAN, per, Ukrainskiy Biokhimi
Zhurn., Vol. XXXIII, No 3, 1961, pp 407-416.

JPRS 10442

Sci. & Med.
Oct. 61

172,659

(NY-6630)

Separation of Brain Proteins Via Paper ~~Electrophoresis~~
Electrophoresis, by P. F. Minayev, A. I. Chukhrova,
6 pp.

RUSSIAN, per, Ukrainskiy Biokhimicheskiy Zhur,
Vol XXXIII, No 3, 1961, pp 431-435.

JPRS 10443

Sci - Med

Nov 61

173,574

(NY-6680)

Distribution, in the Blood and Organs, and
Excretion From the Organism of Polyglucine
Introduced Into the Blood Stream, by G. V.
Derviz, A. G. Stepanenko, 10 pp.

RUSSIAN, per, Ukrayinskyy Biokhimechayy Zhur,
Vol XXXIII, No 4, 1961, pp 467-474.

JPRS 10441

Sci - Med

173,578

Seregina, L. M.
ON ALTERATIONS IN THE CARBOHYDRATE
METABOLISM IN RATS DUE TO DIFFERENT DOSES
OF INSULIN. [1962] [6]p.
Order from OTS or SLA \$1.10

63-10172

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR)
1961, v. 33, no. 4, p. 563-568.

DESCRIPTORS: *Carbohydrates, *Metabolism, Rats,
Dosage, *Insulin, Hormones, Drugs, *Shock
(Pathology), Brain, Blood, Blood chemistry, Lactic
acid, Glycogen, Organic acids.

(Biological Sciences--Biochemistry, TT, v. 9, no. 12)

63-10172

I. Seregina, L. M.

Office of Technical Services

(2-201)

Skvirskaya, E. B. and Babii, T. P.
COMPOSITION AND METABOLISM OF NUCLEIC
ACIDS IN FUNCTIONALLY DIFFERENT PARTS OF
THE NERVOUS SYSTEM AND IN THE BRAIN OF
ANIMALS OF DIFFERENT AGES. [1962] [19]p.
(Engl. transl. omitted) 4 refs.
Order from OTS or SLA \$1.10 62-20320

I. Skvirskaya, E. B.
R. Babii, T. P.

[Condensed] trans. of Ukr[ayins'kyi] Biokhimichnyi
Zhurnal (USSR) [1961] v. 33, no. 5, p. 647-656.

DESCRIPTORS: Nucleic acids, *Brain, *Ribonucleic
acids, *Deoxyribonucleic acids, Animals, *Age,
Nucleotides, Metabolism, Phosphorus, Tracer studies,
*Nucleic acids.

It was established that ribonucleic acid (RNA) in the
central nervous system (CNS) and the peripheral system
of cats is heterogeneous in its nucleotides. The compo-
sition of RNA and deoxyribonucleic (DNA) and the pro-
(Biological Sciences--Biochemistry, TT, v. 9, no. 10)

Office of Technical Services

Turova, N. F.
RIBONUCLEIC ACID IN THE BRAIN OF ANIMALS
DURING ELECTRICALLY INDUCED CONVULSIONS.
[1962] 15p.
Order from OTS or SLA \$1.10

62-20305

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR)
1961, v. 33, no. 6, p. 805-809.

DESCRIPTORS: *Ribonucleic acids, *Brain, Animals,
*Electroshock, *Convulsions, Biochemistry, Micro-
photography, Cytochemistry, Nucleic acids

(Biological Sciences--Biochemistry, TT, v. 9, no. 11)

62-20305

1. Turova, N. F.

Office of Technical Services

Korotkorucho, V. P. and Fedorova, G. P.
PHYSICO-CHEMICAL PROPERTIES OF SERUM
PROTEINS IN RABBITS WITH BROWN-PEARCE
CARCINOMA. [1963] [16p] 21 refs FASEB Manuscript
no.: S 395-2.

Order from OTS, SLA, or ETC \$...60 TT-63-24522

Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR)
1962, v. 34 no. 1, p. 23-31. (Abstract available)

DESCRIPTORS: Physical chemistry, *Blood proteins,
Rabbits, *Cancer, Blood chemistry, Diagnostic agents,
Diagnosis,

A substantial decrease in the quantity of reactive SH-
groups in natural blood serum of carcinomatous rabbits
as compared with that of healthy rabbits was shown,
both per 100 ml of serum and per 1 g of protein. In
protein precipitated by nitric acid from the serum of
(Biological Sciences--Pathology, TT, v. 11, no. 6) (over)

TT-63-24522

- I. Title: Brown-Pearce carcinoma
- I. Korotkorucho, V. P.
- II. Fedorova, G. P.
- III. FASEB-S-395-2
- IV. Federation of American Societies for Experimental Biology, Washington, D. C.
- V. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

(NY-7038)

THE POLAROGRAPHIC ACTIVITY OF BLOOD SERUM PROTEINS,
DURING ACUTE RADIATION SICKNESS AND THE
PREVENTIVE ADMINISTRATION OF PROPYL CALLATE,
BY V. A. SARAGOV, S. A. BERNITEYN, 8 PP.

RUSSIAN, PER, USSRAN BIOKHIM ZHR, VOL XXIV,
NO 1, 1962, PP 32-38.

JPRS 13639

SCI - MED
MAY 62

193,306

Ribina, A. O.
EFFECT OF 2,4-DINITROPHENOL ON THIAMINE
UPTAKE AND METABOLISM IN RABBIT LIVER.
[1963] 10p 15refs FASEB Manuscript no. S 396-2.
Order from OTS, SLA, for ETC \$1.10 TT-63-23891

Trans. of Ukrayina'kyi Biokhimichnyi Zhurnal (USSR)
1962, v. 34, no. 1, p. 47-55. (Abstract available)

DESCRIPTORS: *Nitrophenols, *Thiamine, *Absorption
(Biological), *Metabolism, Liver, Vitamins, Tracer
studies.

Four-hour action of DNP in vivo experiments produces a
decrease in the content of thiamine phosphate fractions
in the rabbit liver without marked disturbance of
radiothiamine uptake. The decreased content of phos-
phorylated thiamine is primarily associated with a
decrease in TTP radioactivity. Changes in the radio-
(Biological Sciences--Biochemistry, TT, v. 11, no. 6)
(over)

TT-63-23891

- I. Ribina, A. O.
- II. FASEB S-396-2
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

New Species of Blue-Green Algae-Nostoc
Elaphicum sp. n., by N. V. Kondratyeva.
RUSSIAN, per, Ukrains'kii Biokhimichnii
Zhurnal, 1962, Vol 19, No 1, pp 58-65.
MLL RTS 2212 (On Loan or Purchase)

Aug 65

288,864

Isolation and Purification of Brain Proteinase,
by H. M. Poliakova, V. K. Lishko, 8 pp.

UKRAINIAN, per, Ukrain Medichim Zhur, Vol XXXIV,
No 2, 1962, pp 208-216.

NIH 12-17-62

Sci - Med

222,489

Feb 63

Effect of Adenosinetriphosphoric Acid (ATP) on
the Metabolism of Phosphoproteins in the Liver
at Radiation Inflection, by R. P. Vinogradova, 9 pp.
UKRAINIAN, per, Ukrayins'kyi Biok Zhur.
Vol XXXV, 1963, pp 274-279. 9696758
RFD-TT-64-1163

Sci - Biol & Med Sci
May 65

280,463

Effect of Whole-Body X-Irradiation on
Iron Metabolism in Animals, by A. B.
Uteshev, 7 pp.

RUSSIAN, per. Ukrain Biokhim Zhur,
Vol XXXIV, No 3, 1962, pp 371-378.
9069036

ABC TR-5354

Sci - Med
Dec 62

217.5866

Dietary Amino Acid Deficiency in Relation to Blood
Sugar, by P. V. Simakov.

RUSSELL, per, Ukrainian Biokh Zhur, Vol XXXIV, No 3,
1962, pp 100-105.

MLL RFE 2245 (L-2)

Sci - Biol & Med Sci
Feb 64

248, 281

The Ammonia-Glutamic Acid-Glutamine System
in the Rat Brain During Various Phases of
Hypothermia, by Ya. I. Veksler, Z. S. Gershenovich. 1
14 pp.

RUSSIAN, per, Ukrayin'skyi Khimichnyi
Zhurnal, Vol XXXIV, No 3, 1962, pp 406-418.
OSIA TT-64-18755

Sept 66

309,774

Formation of Acetyl Phosphate in Animal Liver
Homogenates, by M. F. Gully, T. M. Pechonova, et al,
12 pp.
UKRAINIAN, per, Ukrain Biokhim Zhur, No 6, 1962,
pp 848-851. 9226784
AEC-UCRL-Tr-1137(L)

Sci-B/M
Feb 65

273,209

Effect of X-Ray Radiation and Prophylactic Treatment
with Propyl Gallate on Nucleic Acid Content in Rat
Organs, by M. F. Lipkan, V. A. Barabov, 7 pp.

RUSSIAN, per, Ukrain Biokhim Zhur Vol XXXIV, No 2,
1962, pp 167-175. 966629

FID- 17-62-918

Sci - Med
Nov 62

216,877

Enzymatic Classification of Poisons, by A. A. Pokrovskiy,
33 pp.
RUSSIAN, per, Uspekhi Biol Khim, No 4, 1962, pp 61-80.
JPRS 25966

Sci - Chem
Dec 64

269,888

Denaturation and Fragmentation of DNA in
Cells of the Animal Organism, by B. I.
Gol'dshtein, V. V. Gerasimova.

RUSSIAN, per, Ukrayin'kyi Biokhimichnyi
Zhurnal, Vol 35, No 1, 1963, pp 3ff.

FASEB

Sci-B&M
Jul 66

306,458

Ivanyuta, O. M.
CARBOHYDRATE-PHOSPHORUS METABOLISM IN
THE SKELETAL MUSCLES OF EPINEPHREC-
TOMIZED ANIMALS TREATED WITH CORTISONE
AND VITAMINS C AND P (Vuglevodno-Fosforniy
Obmin Skeletnykh M'yaziv Epinefektomovannykh
Zhivnykh pri Terapii Kortyzonom i Vitaminami C i P).
[1963] 18p 4refn FASEB Ms no. S411-3.
Order from OTS, SLA, or ETC \$1.10 TT-64-13904

Trans. of Ukrains'kyi Biokhimichnyi Zhurnal (USSR)
1963, v. 35, no. 1, p. 30-34.

DESCRIPTORS: Carbohydrates, Phosphorus,
*Metabolism, *Muscles, Excision, Adrenal glands,
*Corticosteroid agents, *Ascorbic acid, *Vitamin P.

(Biological Sciences--Biochemistry, TT, v. 11, no. 10)

TT-64-13904

- I. Ivanyuta, O. M.
- II. FASEB-S-411-3
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

THE EFFECT OF SODIUM GALLATE ON THE NUCLEIC
ACID CONTENT IN THE ORGANS OF HEALTHY AND
IRRADIATED RATS, BY V. A. BARABOY, S. P. MATSUY,
8 PP.

UKRAINIAN, PER, UKRAYNS'KIY BIOKHMICHNIY ZHURNAL,
VOL XXXV, NO 1, 1963, PP 84-90.

JPRS 19355

OTS 77-64-13837

SCI - BIOL & MED SCI

MAY 63

231,349

Fibrinogen Fractions, by T. V. Varetskaya. 15 pp.
RUSSIAN, per, Ukrayins'kyi Biokhimichnyi Zhurnal,
Vol 35, No 1, 1963, pp 104-112.
SLA TT-64-19228

Sci/B&M
Jul 66

303,832

Free Amino Acid Content of the Cerebral
Hemispheres, by N. S. Nilova, 11 pp.
RUSSIAN, per, Ukrain Biokim Zhur, Vol XXXV,
No 2, 1963, pp 220-226.
NIH 5-4-64

Sci - Biol & Med
Jul 64

262,194

Uric Acid Content in the Tissues and Its
Formation From RNA and Nucleotides, by
Yu. L. Hermanyuk.
RUSSIAN, per, Ukrayins'kyi Biokhimichnyi
Zhurnal, Vol XXIV, 1963, pp 377-384, No 3.
CISPI TT 65-60202

Sci
Jun 67

327,337

Bone Tissue Trace Element Content During
Immobilization, by V. M. Gordienko, A. M. Bilous.
RUSSIAN, per, Ukrayins'kyi Biokhimichnyi Zhurnal,
Vol XXXV, No 37 1963, pp 428-435.
CFSFI TF 65-60158

Sci
Jun 67

327,336

NUCLEIC ACID CONTENT IN NERVE CELLS IN VARIOUS
FUNCTIONAL STATES (ACCORDING TO DATA FROM QUANTI-
TATIVE CYTOCHEMICAL INVESTIGATIONS), BY L. Z. PEVZNER
31 PP

RUSSIAN, PER, UKRAINSKIY BIOKHMICHESKIY ZHURNAL,
VOL XXXV, NO 3, 1963, PP 443-477.

JPRS 20868

USSR
SCI-BIOL & MED SCI
SEP. 63

342,915

NUCLEIC ACID CONTENT IN THE TISSUES OF ANIMALS
IRRADIATED AND TREATED WITH AN ANTI-RADIATION COMPLEX,
BY M. F. LIPKAN, M. T. PINDICH, 7 PP.

UKRAINIAN, PER, UKRAYINS'KIY BIOKHMICHNIY ZHURNAL,
VOL XXXV, NO 4, 1963, PP 514-518.

JPRS 21472

SCI-BIOL & MED
OCT 63

346,457

EFFECT OF IPRASIDE ON THE NITROGEN METABOLISM OF
THE RABBIT BRAIN, BY YA. T. TERLET'S'KA, 7 PP.

UKRAINTAN, PER, UKRAYINS'KIY BIOKHMICHES'NYI ZHURNAL,
VOL XXXV, NO 1, 1963, PP 542-547.

JPRS 21472

SCI-BIOCHEM MED
OCT. 63

346,450

Effect of Cortisone on the Metabolism of Ribonucleic
Acid and Its Nucleotides in Liver Development,
by Ts. M. Shereshevskaya, 16 pp.
RUSSIAN, per, Ukrain Biokhim Zhur, Vol XXXV,
No 5, 1963, pp 656-667. 9223420
NASA TT F-224

Sci - B & M Sci
Aug 64

265,575

Anti-Radiation and Anti-Oxidation Properties of Certain
Polyphenols, by V. A. Baraboi, B. Ya. Medovar, 9 pp. (SF-3015)
UKRAINIAN, per, Ikrayinskiy Biokhimichnyi Zhur, Vol XXXV,
No 6, 1963, pp 924-929.

Sci - Chem
Mar 64

JPRS 23567

CFSTI TT 64-21134

251, 595

Bio Lab T-459-1

R-7443-D
6 Sept. 1966

FRACTIONATION OF BOVINE GAMMA-GLOBULIN ON COLUMNS OF
CARBOXYMETHYL- AND DIETHYLAMINETHYL-CELLULOSE

Author: A.S. Tsyperovich & I.P. Galich

Source: Ukrainian Biochemical Journal, 35, 6, 1963

pp 931-941

Language: Russian

Est for wds:

Type one camera ready copy. Document may be cut.

T-459-1

Incorporation of Radiomethionine in the Protein
Fractions of Blood Serum Under the Effect of
X-Ray Irradiation and Thiophosphamide, by
I. V. Savitskiy, V. G. Zelinskiy, 8 pp.
RUSSIAN, per, Ukrayin Biokhim Zhur, Vol XXXVI,
No 1, 1964, pp 14-20.
JPRS 24164

Sci - Med
Apr 64

254, 405

Rupture of Disulfide Bonds of Fibrinogen by
Cysteine, by A. K. Khomenko, V. A. Belitser, 10 pp.
RUSSIAN, per, Ukrayin Biokhim Zhur, Vol XXXVI,
No 1, 1964, pp 22-31.
JPRS 24164

Sci - Med
Apr 64

254, 406

Changes in Certain Physico-Chemical Properties of
Cerebral Proteins Under eExcitation of Nervous
Activity, by Ye. F. Ivanenko, V. F. Dunayeva, 10 pp.
RUUKRAINIAN, per, Ukrayins'ky Blokhimi Zhur,
Vol. XXXVI, No 1, 1964, pp 72-79.
JPRS 24119

Sci - Biol & Med
Apr 64

254, 343

Effect of Ischemia on the Indices of
Energy and Protein Metabolism of the
Myocardium, by T. V. Fetisova, L. F. Khomitska,
RUSSIAN, per, Ukrayins'kyi Biokhimichnyi Zhurn,
Vol XXVI, No 1, 1964, pp 80-87.

CISTI TT 65-60235

Sci
Jun 67

327,335

Synthesis and Transformation of Amino Acids and
Other Organic Compounds by the Effect of
Ir-Radiation and Other Types of Energy, by
M. A. Kolomyichenko, 23 pp.
RUSSIAN, per, Ukrayin Biokhim Zhur, Vol XXXVI,
No 1, 1964, pp 132-155.
JPRS 24164

Sci - Med
Apr 64

254, 407

Sarcoplasm Proteins and Serum Proteins During
Prolonged Muscular Activity and at Rest, by
A. F. Krasnova, 8 pp.

~~KHRSK~~

UKRAINIAN, per, Ukrain Biokhim Zhur, Vol XXXVI,
No 2, 1964, pp 209-215.
JPRS 24744

Sci-Med
Jun 64

260,436

Ubiquinone Contents of Liver Homogenates
and Mitochondria in White Rats in the
Process of Developing A-avitaminosis,
by G. V. Donchenko.
UKRAINIAN, per, Ukr Biolhim Zhur, Vol XXXVI,
1964, No 4, pp 483-491.
HEW NIH No 4-34-66
CFSTI TT-66-61477

Sci - B/M
May 66

301,372

The Chemical Composition of the Urea-Extractable
Components of the Plague Virus EV, by L. S. Olenicheva,
7 pp.
UKRAINIAN, per, Ukrayins'kyy Biokhim Zhur, Vol XXXVI,
No 4, 1964, pp 492-497.
JPRS 26858

Sci - B & M
Dec 64

269,864

Diurnal Dynamics of Photosynthesis Factors in
the Fruit Tree Crown, by Y. D. Romashko.
RUSSIAN, per, Ukrains 'Kii Botanichnii Zhurnal,
No 20, 1963, pp 56-65
HRC/Ref C- 4910

Sci -

Jul 67

334,974

The Normal Coordinates and Natural Frequencies of KCl,
Calculated With Allowance for Ion Deformation, by K. B.
Tolpygo, et I. G. Zaslavskaya, 25 pp.
RUSSIAN, per, Ukrayin Fiz Zhur, Vol IV, 1953, pp 71-92.
9219342

AERE-XHarwell-Tr-972

Sci-Phys
Mar 64

251,266

Interrelation of Ordering and Magnetiza-
tion Phenomena of Ferromagnetic Alloys
With Hexagonal Densely Packed Lattice,
by D. R. Rins'yanets'kiy, 12 pp.

UKRAINIAN, per, Ukrayins'kyi Fizychnyy
Zhur, Vol IX, No 3, 1964, pp 309-317.

X96378

WD-TT-65-133

Sci - M/M

Apr 65

277,857

The Emission and Absorption of Light in Molecular
Crystals Caused by the Formation of Local Excitations,
by A. B. Danylov, A. F. Lubchenko, 15 pp.

RUSSIAN, per, Ukrain Fiz Zhur SSSR, Vol 1, No 1, 1956,
pp 5-13.

SLA 59-10329

Sci - Phys
Sep 59
Vol 2, No 1

97 787

Physical Phenomena During the Operation of an
Arc Discharge Cathode in Cesium ~~Vapor~~ Vapors
by H. D. Morgulis, P. M. Marchuk, 23 pp.

UKRAINIAN, per: ~~Ukrainskiy Fiz Zhur~~, No 1,
1955, pp 60-70. 9570087

FTO
REF: HCL-323/1

Sci - Phys

4 Aug 61.

162,834

Source of Protons With Thermal Dissociation of
Hydrogen Molecules, by M. D. Gabovich, Z. P. Fedorus,
13 pp.
UKRAINIAN, per, Ukrains'kyi Fizichnyi Zhur, Vol I,
No 2, 1956, pp 158-169. 9693241
FTD-TT-64-522

Sci - Phys
Jul 64

263,739

The Eigenvibration Spectrum of NaCl Taking Ion Deformation,
Into Account, by K. B. Tolpyho, I. H. Zaslava'ska, 13 pp.
RUSSIAN, per, Ukrayin Fiz Zhur, Vol I, No 3, 1956,
pp 226-244. 9219338

ABRE-Harwell-Tr-971

Sci-Phys
Mar 64

251,264

Theory of Electronic Processes in Metal Ammonia
Solutions, by M. F. Deigen, Yu. A. Tsvirko,

RM UCRANIAN, per, Ukrain Fiz Zhur, Vol 1, 1956, *Mr 3*
pp 245-250. *↑*

*AEC

Sci - Phys
Aug 60

The Thermal Conductivity of an Oxide Cathode,
by Ya. P. Zingerman. UNCL.

RUSSIAN, per, Ukrainakiy Fiz Zhur, Vol I, 1956,
No 3, pp 308-311.

DSIR LLJ RTB 1030

10a. Qd.

Sci - Chem; Phys
Sep 59

95, 834

Calculation of the Specific Heat of the NaCl Crystal, by
I. H. Zaslav'ska, 6 pp.
RUSSIAN, per, Ukrayin Fiz Zhur, Vol I, No 4, 1956,
pp 366-370. 9219335

AHRE-Harwell-Tr-970

Sci-Phys
Mar 61

251,260

Table of Contents only of:

RUSSIAN, per, Ukrain Fiz Zhurnal, Vol I, No 2, 1957.

CIA/FDD X-2536

(Morris D. Friedman)

Sep 57

The Theory of Electrical Resistance of Ordered
Alloys of Transition and non-Transition Metals,
by Z. Matysina, A. Smirnov.

RUSSIAN, per, Ukrain Fiz Zhur, Vol II, No 1,
1957, pp 14-18.

CSIRO 3920

Sci - Min/Met
Aug 62

2/1, 2/7

Variation of Semiconductor Magnetoresistance in
a Polar Model, by O. N. Muzichuk, 13 pp.

RUSSIAN, per, Ukrain Fiz Zhur, Vol II, No 1, 1957,
pp 43-52.

SLA R-3129

Sci

Norman D. Friedman

Jul59

91,323

The Influence of the Products of Evaporation
of Thermionic-Cathode Material, in Particular
Barium, on the ~~Some~~ Transformations Which
Take Place in the Oxides of Metals During
Their Electron Bombardment, by G. S. Ilkhaev.
UNCL

RUSSIAN, per, Ukrainskiy Fiz Zhur, Vol II, No 1,
1957, pp 95, 96.

DSIR LII RTS 1029

2a. 6d. anywhere

99, 463

Sci - Min/Met

Oct 50